

6.4 kb

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Purpose: To repeat & optimize preliminarily 6.4 kb.

Tried mini-prep DAPI as a control

Will try 2 dif. cycling conditions 3 step as well as 2 step.

Colonies will be lysed in 2 different ways 1. in PK (rough)  
2. in H<sub>2</sub>O colony  
unlyzed will also be included again. buffer

conditions: - since 200 µM dNTP & 2 mM Mg  
4 µM primer has Mg  
worked with Tag 5'U, the same  
conditions will be used. pH 7.5, 10 mM Tris-HCl  
1 mM EDTA  
50 µg/ml PK

used 2 µl of mini-prep - can unknown (hard BMB (3))  
still hard to run gel

Tried dif. enzyme conc 1', 2', 5' and 1:100, 2:100, 5:100  
Tag Tag & DV

Colony lysis: Since these colonies were so minute after 10x  
at 37° pooled 5 or 6 colonies in a single area -  
spotted 2 µl of lysis buffer or H<sub>2</sub>O mixed & pipetted out the  
liquid on to a tube containing 18 µl of lysis buffer  
or H<sub>2</sub>O

Colonies in PK lysis 55°, 15' → 95°, 15'  
in H<sub>2</sub>O 95°, 15'

(Added ~ 5 µl of H<sub>2</sub>O) pooled all these tubes together  
and made up the volume to 50 µl

Should have picked more for more reactions  
used 10 µl / Rx - appropriately either PK lysed or H<sub>2</sub>O lysed ✓  
colony lysis 10 µl H<sub>2</sub>O To Page No. \_\_\_\_\_

Read &amp; Understood by me,

Date

1/6/95

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Recorded by

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For mini-prep DNA: prepared premix with template  
 For colony: added them later

mini-prep premix: 25x

A  
 dNTP 25  $\mu$ l (200  $\mu$ M each / Rx)  
 F.P 5 (25  $\mu$ l) 0.4  $\mu$ M  
 R.P 5 0.4  $\mu$ M  
 Template 25x2  $\rightarrow$  last exp. used 1.5 + 1 / Rx  
 mini-prep 415 = 2  $\mu$ l / Rx  
 H<sub>2</sub>O

500  $\rightarrow$  20  $\mu$ l / Rx

Premix B: 5x  
 (2 mM) Buffer B  
 100x enzyme  
 H<sub>2</sub>O

	1	2	5	Tag + DV	1:01	2:02	5:03
50	50	50	50	50	50	50	50
1	1	1	1	1	1	1	1
2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
150	150	150	150	150	150	150	150

30  $\mu$ l / Rx

step 2  
 3 cycle

94°, 3'  
 20 (94°, 45"  
 55°, 30"  
 72°, 3')

2 step:

94°, 3'  
 94°, 45"  
 68°, 5'

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age N		2 step		3 step	
Tube #				Tube #	
1		1		13	same as in 2 step.
2		1		14	
3		2		15	
4		2		16	
5		5		17	
6		5		18	
7		1 : .01		19	
8		1 : .01		20	
9		2 : .02		21	
10		2 : .02		22	
11		5 : .05		23	
12		5 : .05		24	

Colonies

In mix A : 15 x

Mix B : 5 x as earlier :  
for T + D.V

d.w.TP 15

primer 3

" 3

- 150 (Template 10 µl / Rx like added earlier)

120 129

150 → 10 µl f Rx

20 µl → + ←

added 30 µl / Rx  
appropriately either  
Tag alone or Tag + D.V

changing condition same as mini prep.

for 3 step cycle, 2 step not done. ∴ don't  
have much template left from  
lysed plasma

tube # 25 1 + .01

26 2 + .02

27 5 + .05

PK lysed

28 } 11, 20

29 } lysed

30 }

31

32

33

straight pick

35, 36 (20 Tag)

H.w. plain

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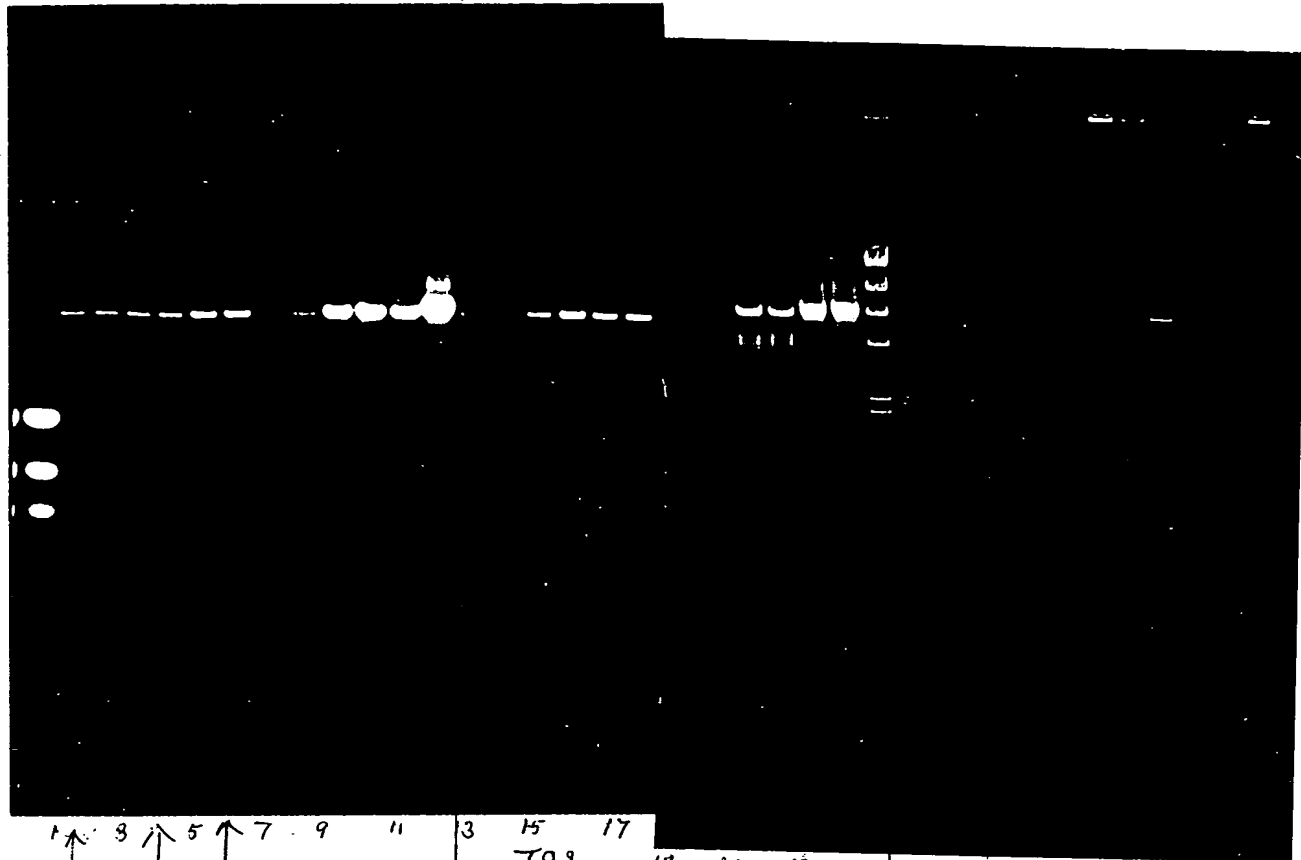
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*2 step cycle**3 step cycle**1 3 5 7 9 11 13 15 17*  
*Tag**19 21 23*  
*T + DV**PK H<sub>2</sub>O direct peak**Unit 1*  
*enzyme*  
*Tag*  
*mini prep.**Enzyme Mix*  
*1, 2, 5**PK typed*  
*H<sub>2</sub>O typed*  
*direct peak*  
*w Tag + DV*  
*2 U**Plasmids*

Result: Even 3 step gave better product with less mis-  
plasmid amp should be done under more control.

Witnessed & Understood by me, *[Signature]*Date *1/10/85*

Invented by

Date *1/9/85*

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